		Exploring Aeroi	nautics
		2005 Mathem	
N		Core Curricu	ılum
New York Mathematic	<b>S</b>		
Grade 5	Ctoto	Standards	
Activity/Lesson	State	Standards	
Fundamentals of			Represent problem situations verbally,
Aeronautics (145-176)	NY	MA.5.5.PS.7	numerically, algebraically, and/or graphically
7101011441100 (110 110)	111	1717 1.0.0.1 0.17	Share organized mathematical ideas through
			the manipulation of objects, numerical tables,
			drawings, pictures, charts, graphs, tables,
Fundamentals of			diagrams, models, and symbols in written and
Aeronautics (145-176)	NY	MA.5.5.CM.4	verbal form
			Use physical objects, drawings, charts, tables,
Fundamentals of			graphs, symbols, equations, or objects created
Aeronautics (145-176)	NY	MA.5.5.R.1	using technology as representations
			Determine the tool and technique to measure
Fundamentals of			with an appropriate level of precision: lengths
Aeronautics (145-176)	NY	MA.5.5.M.6	and angles
			Determine personal references for customary
Fundamentals of	N. N. C	5 5 14 0	units of length (e.g., your pace is approximately
Aeronautics (145-176)	NY	MA.5.5.M.9	3 feet, your height is approximately 5 feet, etc.)
Fundamentals of			Determine negacial references for metric units
Fundamentals of	NIV	MA.5.5.M.10	Determine personal references for metric units of length
Aeronautics (145-176)	INT	IVIA.3.3.IVI. 10	Collect and record data from a variety of
Fundamentals of			sources (e.g., newspapers, magazines, polls,
Aeronautics (145-176)	NY	MA.5.5.S.1	charts, and surveys)
7101011441100 (110 110)	111	1717 1.0.0.0.1	charte, and carveye)
Fundamentals of			Formulate conclusions and make predictions
Aeronautics (145-176)	NY	MA.5.5.S.4	from graphs
,			Determine the tool and technique to measure
Airplane Control(209-			with an appropriate level of precision: lengths
256)	NY	MA.5.5.M.6	and angles
Airplane Control(209-			
256)	NY	MA.5.5.M.8	Measure and draw angles using a protractor
			Represent problem situations verbally,
The Resource Center	NY	MA.5.5.PS.7	numerically, algebraically, and/or graphically
The Resource Center	NY	MA.5.5.N.2	Compare and order numbers to millions
Oniones of Flimbs	NIX	NAA 5 5 0NA 7	Raise questions that elicit, extend, or challenge
Science of Flight	NY	MA.5.5.CM.7	others' thinking
			Model situations with objects and
Science of Flight	NY	MA.5.5.CN.5	representations and be able to draw conclusions
Ocience of Flight	141	IVIA.J.J.CIN.J	Collect and record data from a variety of
			sources (e.g., newspapers, magazines, polls,
Science of Flight	NY	MA.5.5.S.1	charts, and surveys)
COLOTION OF FINGER		1417 1.0.0.0.1	Formulate conclusions and make predictions
Science of Flight	NY	MA.5.5.S.4	from graphs
Integrating with			Represent problem situations verbally,
Aeronautics	NY	MA.5.5.PS.7	numerically, algebraically, and/or graphically

Integrating with			Translate from a picture/diagram to a number or
Aeronautics	NY	MA.5.5.PS.11	symbolic expression
Acionaulios	INI	IVIA.3.3.1 3.11	Use physical objects, drawings, charts, tables,
Integrating with			graphs, symbols, equations, or objects created
Aeronautics	NY	MA.5.5.R.1	using technology as representations
Acionaulios	INI	WA.S.S.K. 1	Determine the tool and technique to measure
Intograting with			with an appropriate level of precision: lengths
Integrating with Aeronautics	NY	MA.5.5.M.6	· · · · · · · · · · · · · · · · · · ·
Integrating with	INT	IVIA.S.S.IVI.0	and angles
0 0	NY	MAFFCA	Formulate conclusions and make predictions
Aeronautics	IN T	MA.5.5.S.4	from graphs  Collect and record data from a variety of
Intro to Aproposition			
Intro to Aeronautics	NIX	NA 5 5 C 1	sources (e.g., newspapers, magazines, polls,
(109-123)	NY	MA.5.5.S.1	charts, and surveys)
Intro to Aeronautics	NIX	NAA 5 5 0 0	Calculate the mean for a given set of data and
(109-123)	NY	MA.5.5.S.3	use to describe a set of data
O = ! = = 4!6 = M = 4 = = = 1/4 O 4			Mandal attending with a bis standard
Scientific Method(124-	N IN C	NAA 5 5 0N 5	Model situations with objects and
144)	NY	MA.5.5.CN.5	representations and be able to draw conclusions
O-1			Use mathematics to show and understand social
Scientific Method(124-			phenomena (e.g., construct tables to organize
144)	NY	MA.5.5.R.8	data showing book sales)
			Collect and record data from a variety of
Scientific Method(124-			sources (e.g., newspapers, magazines, polls,
144)	NY	MA.5.5.S.1	charts, and surveys)
		Exploring Aeror	
		2005 Mathema	
		Core Curricu	lum
New York Mathematic	S		
Grade 6			
Activity/Lesson	State	Standards	
Fundamentals of			Represent problem situations verbally,
Aeronautics (145-176)	NY	MA.6.6.PS.7	numerically, algebraically, and/or graphically
Fundamentals of			Make organized lists or charts to solve
Aeronautics (145-176)	NY	MA.6.6.PS.15	numerical problems
			Use physical objects, drawings, charts, tables,
Fundamentals of			graphs, symbols, equations, or objects created
Aeronautics (145-176)	NY	MA.6.6.R.1	using technology as representations
			Raise questions that elicit, extend, or challenge
Science of Flight	NY	MA.6.6.CM.7	others' thinking
			Model situations with objects and
Science of Flight	NY	MA.6.6.CN.5	representations and be able to draw conclusions
<b>_</b>			Use physical objects, drawings, charts, tables,
Integrating with			graphs, symbols, equations, or objects created
Aeronautics	NY	MA.6.6.R.1	using technology as representations
	1		Develop the concept of sampling when
			collecting data from a population and decide the
Intro to Aeronautics			best method to collect data for a particular
(109-123)	NY	MA.6.6.S.1	question
(103-143)	INI	IVIA.0.0.3. I	qucou011

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Scientific Method(124-	NIX	NAA C C CNA 7	Raise questions that elicit, extend, or challenge
144)	NY	MA.6.6.CM.7	others' thinking
Scientific Mathed(124			Model situations with objects and
Scientific Method(124-144)	NY	MA.6.6.CN.5	Model situations with objects and representations and be able to draw conclusions
Scientific Method(124-	INT	IVIA.0.0.CIN.3	representations and be able to draw conclusions
144)	NY	MA.6.6.S.7	Read and interpret graphs
144)	INI	IVIA.0.0.3.1	Read and interpret graphs
	<u> </u>	Exploring Aeror	nautics
		2005 Mathema	
		Core Curricu	
New York Mathematic	:s		
Grade 7			
Activity/Lesson	State	Standards	
Fundamentals of			Choose methods for obtaining required
Aeronautics (145-176)	NY	MA.7.7.PS.15	information
			Share organized mathematical ideas through
			the manipulation of objects, numerical tables,
			drawings, pictures, charts, graphs, tables,
Fundamentals of			diagrams, models and symbols in written and
Aeronautics (145-176)	NY	MA.7.7.CM.4	verbal form
			Use physical objects, drawings, charts, tables,
Fundamentals of			graphs, symbols, equations, or objects created
Aeronautics (145-176)	NY	MA.7.7.R.1	using technology as representations
			Students will develop strategies for estimating
Wings(177-208)	NY	MA.7.7.M.11	measurements. Estimate surface area
			Use mathematics to show and understand
			physical phenomena (e.g., make and interpret
Tools of			scale drawings of figures or scale models of
Aeronautics(257-326)	NY	MA.7.7.R.9	objects)
			Use mathematics to show and understand
			physical phenomena (e.g., make and interpret
The Tools of	<b>.</b>		scale drawings of figures or scale models of
Aeronautics	NY	MA.7.7.R.9	objects)
The December Occuber	N IN C	NAA 7 7 NI 40	Add and subtract two integers (with and without
The Resource Center	NY	MA.7.7.N.13	the use of a number line)
			Evaluate conjectures by distinguishing relevant
Colomos of Flight	NIX	MA 7 7 DD 2	from irrelevant information to reach a conclusion
Science of Flight	NY	MA.7.7.RP.3	or make appropriate estimates
			Model situations mathematically, using representations to draw conclusions and
Science of Elight	NY	MA.7.7.CN.4	formulate new situations
Science of Flight	INI	IVIA.7.7.CIN.4	Identify and collect data using a variety of
Science of Flight	NY	MA.7.7.S.1	methods
Integrating with	INI	IVIA.7.7.3.1	Apply inductive reasoning in making and
Aeronautics	NY	MA.7.7.RP.8	supporting mathematical conjectures
AGIOHAUIICO	141	IVI/\tau. I . I . I\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Share organized mathematical ideas through
			the manipulation of objects, numerical tables,
			drawings, pictures, charts, graphs, tables,
Integrating with			diagrams, models and symbols in written and
Aeronautics	NY	MA.7.7.CM.4	verbal form
/ CTOTIGUTIOS	I 4 I	INIA.1.1.CIVI.4	renoun onn

			Use mathematical strategies to reach a
Aeronautics	NY	MA.8.8.R.9	objects)
The Tools of	NIV	MASSES	scale drawings of figures or scale models of
The Tools of			physical phenomena (e.g., make and interpret
			Use mathematics to show and understand
Aeronautics (145-176)	NY	MA.8.8.R.1	using technology as representations
Fundamentals of			graphs, symbols, equations, or objects created
			Use physical objects, drawings, charts, tables,
Aeronautics (145-176)	NY	MA.8.8.CM.4	verbal form
Fundamentals of			diagrams, models and symbols in written and
			drawings, pictures, charts, graphs, tables,
			the manipulation of objects, numerical tables,
.,			Share organized mathematical ideas through
Activity/Lesson	State	Standards	
Grade 8			
New York Mathematic		Oole Cullicul	I I I I I I I I I I I I I I I I I I I
		Core Curricul	
		2005 Mathema	
		Exploring Aeron	autics
177)	1 4 1	IVIA.1.1.0.11	prodictions
144)	NY	MA.7.7.S.11	predictions
Scientific Method(124-	INI	IVIA.1.1.0.0	Design and conduct an experiment to test
144)	NY	MA.7.7.S.6	double line/bar graphs or circle graph)
Scientific Method(124-			Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph,
			Pood and interpret data represented graphically
144)	NY	MA.7.7.S.1	methods
Scientific Method(124-	NIV	NAA 7704	Identify and collect data using a variety of
	INI	IVIA.1.1.UN.4	
144)	NY	MA.7.7.CN.4	formulate new situations
Scientific Method(124-			representations to draw conclusions and
177)	INI	IVIA.1.1.IXI.J	Model situations mathematically, using
144)	NY	MA.7.7.RP.3	or make appropriate estimates
Scientific Method(124-			from irrelevant information to reach a conclusion
,		1VII V. I . I . I VI . Z	Evaluate conjectures by distinguishing relevant
144)	NY	MA.7.7.RP.2	conclusion
Scientific Method(124-			Use mathematical strategies to reach a
144)	NY	MA.7.7.PS.15	information
Scientific Method(124-			Choose methods for obtaining required
(109-123)	NY	MA.7.7.S.6	double line/bar graphs or circle graph)
Intro to Aeronautics			(pictograph, bar graph, histogram, line graph,
			Read and interpret data represented graphically
(109-123)	NY	MA.7.7.S.1	methods
Intro to Aeronautics			Identify and collect data using a variety of
Aeronautics	NY	MA.7.7.S.6	double line/bar graphs or circle graph)
Integrating with			(pictograph, bar graph, histogram, line graph,
			Read and interpret data represented graphically
Aeronautics	NY	MA.7.7.R.1	using technology as representations
Integrating with			graphs, symbols, equations, or objects created
La 4 a la la 20 10 10 10 10 10 10 10 10 10 10 10 10 10		1	Use physical objects, drawings, charts, tables,

			Evaluate conjectures by distinguishing relevant
			from irrelevant information to reach a conclusion
Science of Flight	NY	MA.8.8.RP.3	or make appropriate estimates
			Use mathematics to show and understand
			physical phenomena (e.g., make and interpret
			scale drawings of figures or scale models of
Science of Flight	NY	MA.8.8.R.9	objects)
Integrating with			Apply inductive reasoning in making and
Aeronautics	NY	MA.8.8.RP.8	supporting mathematical conjectures
			Share organized mathematical ideas through
			the manipulation of objects, numerical tables,
			drawings, pictures, charts, graphs, tables,
Integrating with			diagrams, models and symbols in written and
Aeronautics	NY	MA.8.8.CM.4	verbal form
			Use physical objects, drawings, charts, tables,
Integrating with			graphs, symbols, equations, or objects created
Aeronautics	NY	MA.8.8.R.1	using technology as representations
Integrating with			Estimate a percent of quantity, given an
Aeronautics	NY	MA.8.8.N.5	application
Integrating with			Write verbal expressions that match given
Aeronautics	NY	MA.8.8.A.2	mathematical expressions
Integrating with			Describe a situation involving relationships that
Aeronautics	NY	MA.8.8.A.3	matches a given graph
			Create a graph given a description or an
Integrating with			expression for a situation involving a linear or
Aeronautics	NY	MA.8.8.A.4	nonlinear relationship
			Understand that numerical information can be
Integrating with			represented in multiple ways: arithmetically,
Aeronautics	NY	MA.8.8.A.15	algebraically, and graphically
Integrating with			Interpret multiple representations using
Aeronautics	NY	MA.8.8.A.19	equation, table of values, and graph
Scientific Method(124-			Use mathematical strategies to reach a
144)	NY	MA.8.8.RP.2	conclusion